

IN THE CLAIMS:

1. (original) A suspension for use in a magnetic storage disk drive, comprising:
a hinge member; and,
a load beam having an associated head gimbal pivot point and a torsional axis, wherein
said hinge and said load beam are formed separately and subsequently joined together, said
torsional axis approximately passing through said pivot point.
2. (original) A suspension load beam as in claim 1 wherein said load beam comprises one
or more ribs formed along a portion of said load beam, said ribs are formed such that the
distribution of mass of said load beam result in the balance of said total mass about said torsional
axis.
3. (original) A suspension load beam as in claim 1 wherein said load beam is formed from
magnesium.
4. (original) A suspension load beam as in claim 1 wherein said load beam is formed from a
magnesium rich alloy.
5. (original) A suspension as in claim 1 wherein said load beam is formed from a
constrained layer damping material.
6. (original) A suspension as in claim 5 wherein said constrained layer damping material
comprises a sandwich of two metal layers and a viscoelastic damping material disposed between
the two metal layers.
7. (original) A disk drive, comprising:
at least one magnetic disk having a recording surface;
a motor connected with said disk;
a slider with a trailing surface;
a magnetic recording head for recording digital data on said recording surface of said
disk, said magnetic recording head formed on said trailing surface of said slider;

a suspension connected with said slider, said

suspension comprising a hinge portion, a load beam portion having a first and second outside edge, said hinge portion and load beam portion being formed separately and joined together, said load beam having a distribution of total mass balanced about a torsional axis, said torsional axis approximately passing through said pivot point;

a rigid arm connected with said suspension; and

an actuator connected with said rigid arm.

8. (original) A disk drive as in claim 7 wherein said load beam has one or more ribs formed along a portion of said load beam, said ribs are formed such that the distribution of mass of said ribs when combined with the distribution of mass of other portions of said load beam result in the balance of said total mass about said torsional axis.

9. (original) A disk drive as in claim 7 wherein said load beam is formed from magnesium.

10. (original) A disk drive as in claim 7 wherein said load beam is formed from a magnesium rich alloy.

11. (original) A disk drive as in claim 7 wherein said load beam is formed from a constrained layer damping material.

12. (original) A suspension as in claim 11 wherein said constrained layer damping material comprises a sandwich of two metal layers and a viscoelastic damping material disposed between the two metal layers.